

GT1524

SINGLE CHANNEL ECHO CANCELLER



PRODUCT OVERVIEW

The GT1524 provides the highest possible audio quality available in a single channel echo canceller.

The GT1524 performs a variety of complex, integrated audio functions using digital signal processors (DSPs). It features an integrated telephone interface that enables telephone participants of an audio- or videoconference to sound as if they are actually in the same room. Plus, it features simultaneous two-wire/four-wire operation so you can audioconference and videoconference at the same time. And there's no white noise set-up—the GT1524 adapts automatically.

The GT1524 provides local room audio capabilities through the mic/line input, for connecting a microphone or microphone mixer; and a line output, for connecting an external power amplifier. A speaker may be connected to the speaker terminals.

The GT1524 handles videoconferencing with a four-wire line-level input/output, which connects to a codec.

The aux input and output terminals allow connection of a VCR or other playback or recording device.

The mic/line and line-level inputs use automatic gain control to compensate for loud or soft talkers. The mic/line offers

high-pass filtering to reduce unwanted low-frequency noise.

The integrated telephone interface provides the GT1524's audioconferencing capability and can be configured to suit your needs. The interface can be set to automatically answer a phone call. It can also automatically disconnect on loop drop or call progress tones. And, as part of its self-contained audioconferencing design, the GT1524 includes a built-in five-watt power amp.

Activating telephone participants, level adjustments, and other functions can be made via front panel programming, activation through a closure on the rear panel, or via the RS232 serial interface and a custom remote control system.

APPLICATIONS

Audioconferencing or audio for videoconferencing:

- With a single microphone
- When existing equipment can't be changed

FEATURES/BENEFITS

- Low-cost teleconferencing solution
- No white noise set-up
- Simultaneous two-wire/four-wire capability lets you bring phone calls into your videoconference
- Integrated touch-tone dialing
- Gentner's Digital Signal Processing technology ensures crystal-clear audio with the deepest, most reliable hybrid null
- 8kHz sampling rate allows continual adaptation to telephone line conditions
- Selectable auto-answer and auto-disconnect
- Built-in phone hybrid with audible ring indication through speaker or line output
- Controlled and programmed via front panel or single RS232 connection
- Lockout front-panel access for security
- Phoenix® push-on blocks make pin-for-pin wiring easier
- Compliance for USA, Canada and Europe includes FCC, CSA and CE
- Mountable in one 19" rack space

Gentner®

1 . 8 0 0 . 9 4 5 . 7 7 3 0
1 . 8 0 1 . 9 7 5 . 7 2 0 0

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SPECIFICATIONS

DIMENSIONS

(L x W x H)
17" x 1.75" x 8" 43.2cm x 4.5cm x 25.4cm

WEIGHT:

7 lbs./3.18 kg dry 12 lbs./5.4 kg

OPERATING TEMPERATURE:

0 -50 C, 32 - 122 F

CONNECTORS

POWER:

Auto-adjusting power module; 100-240Vac; 50/60Hz; 30W

LINE OUT CONNECTOR:

Removable Phoenix[®] block connector, 0dBu nominal, adjustable, balanced bridging

Impedance: 50 Ohms (designed to drive >600 ohm inputs)

Frequency Response: 20Hz to 15kHz ± 2 dB

SNR: >85dB*

THD: <.01%*

AUX OUT:

Removable Phoenix[®] block connector, 0dBu nominal, adjustable, balanced bridging

Impedance: 20kOhms

Frequency Response: 20Hz to 15kHz ± 2 dB

SNR: >85dB*

THD: <.01%*

4-WIRE/VIDEO CODEC IN:

Removable Phoenix[®] block connector, 0dBu nominal, adjustable, balanced bridging

Impedance: 20kOhms

Frequency Response: 20Hz to 15kHz ± 2 dB

SNR: >85dB*

THD: <.01%*

4-WIRE/VIDEO CODEC OUT:

Removable Phoenix[®] block connector, 0dBu nominal, adjustable, balanced bridging

Impedance: 20kOhms

Frequency Response: 20Hz to 15kHz ± 2 dB

SNR: >85dB*

THD: <.01%*

MIC/LINE IN CONNECTOR:

Removable Phoenix[®] block connector, -55 or 0dBu nominal, adjustable, balanced bridging

Impedance: 4kOhms

Frequency Response: 20Hz to 15kHz ± 2 dB

Phantom Power: 24Vdc input, selectable

Noise: EIN 20Hz to 15kHz - 125dBu

THD: <.03%*

Echo Cancellation Tail Time: >120 milliseconds

AUX LINE-LEVEL INPUT CONNECTOR:

Removable Phoenix[®] block connector, 0dBu nominal, adjustable, balanced bridging

Impedance: 20kOhms

Frequency Response: 20Hz to 15kHz ± 2 dB

SNR: >85dB*

THD: <.01%*

SPEAKER OUTPUT:

Binding Post 5W max into 4 Ohms

RS232:

DB9 female, 9,600/19,200/38,400 (bps) baud selectable

TELCO LINE:

RJ11 connector— POTS (plain Old Telephone Service) line or analog extension from PBX

TELCO SET:

RJ11 connector— analog telephone set

CONTROL/STATUS:

DB25 female; (2) +5Vdc pins, 100mA each (8) open collector status outputs, 20V max, 40mA each (8) input activation

TELCO AUDIO PERFORMANCE

Frequency Response: ± 2 dB from 250Hz to 3.3kHz (AGC disabled)

SNR: >60dB (referenced at -15dBm on/off the telephone line)

THD: <2%, 250Hz to 3.3kHz (AGC disabled) referenced at -15dBm on/off the phone line

Pre Emphasis: +4dB at 2kHz

Telco Cancellation Tail Time: 31 milliseconds

* All measurements are referenced to maximum output level with a bandpass of 20Hz to 20kHz unless otherwise specified.

Gentner[®]

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